Interleaved practise

Year 7, week 6

Number:

1. Write the number that these represent:

   2×10^2 | **200** 14×10^3 | **14000** 7×10^4 | **70 000**

2. Jordan owes the bank $475. Each week he is able to save $80 to pay off his debt. How long will it take until he has a positive bank balance? Show how you worked it out.

   Examples: $-475 \xrightarrow{+80} -395 \xrightarrow{+80} -315 \xrightarrow{+80} -235 \xrightarrow{+80} -155 \xrightarrow{+80} -75 \xrightarrow{+80} 5$

   In 6 weeks he will have $5 in the bank.

   or $6 \times \$80 = \$480$ $-\$475 + \$480 = \$5$

3. Draw an array for 8 x 8. Show how you would write this using index notation.

   8^2

4. The new phone I want to buy is currently on sale. Which of the following options would give me the best sale price? How much would I save?

   A. Usual price: $749
      Sale price: 25% off
      25% of $749 = \$187.25$
      $\$749 - \$187.25 = \underline{\$561.75}$

   B. Usual price: $929
      Sale price: ½ price
      $\$929 \div 2 = \$464.50$
      • Option C is the best price
      • You would save $304

   C. Usual price: $760
      Sale price: 40% off
      40% of $\$760 = \$304$
      $\$760 - \$304 = \underline{\$456}$

5. $\frac{2}{5} + \frac{1}{4} =$ | $\frac{13}{20}$

   $\frac{2}{5} + \frac{1}{4} = \frac{13}{20}$ or / $= \frac{8}{20} + \frac{5}{20} = \frac{13}{20}$

Measurement/Geometry:

6. Label the angles in the diagram with the following letters:
   A: acute angles
   O: obtuse angles
   R: right angles

7. Mark one set of three angles in the diagram that add to 180⁰ with an * - *There are a number that can be marked. An example is shown for each task.*
   Colour two angles that add together to create a reflex angle.

8. This rectangle has a perimeter of 86 metres and a length of 30 metres. What is its area?

   30 metres
   390m²   13m

   $P \div 2 = L + B$
   $86m \div 2 = 30m + \square$
   $43m = 30m + 13m$

   $30m \times 13m$
   $= 390 m^2$
   $Area = 390 m^2$

Chance/Data:

9. The following t-shirt sizes were ordered for the school uniform shop:

   8 , 8 , 8 , 10 , 10 , 10 , 10 , 10 , 10 , 10 , 10 , 10 , 10 , 10 , 10 , 10 , 12 , 12 , 12 , 12 , 12 , 12 , 12 , 12 , 12 , 12 , 14 , 14 , 14 , 14

   What is the average shirt size required? Calculate the mean, median and mode.

   mean - add all together and divide by 30
   $330 \div 30 = 10$ mean = 10

   mode = 10 as there are more size 10 than others

   median = 10